### **PCT**

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				FOR FURTHER AC	CTION Se	e Notification	of Transmittal of International	   
P31872-P0						======================================		-EA410)
International application No.				International filing date	'day/month/ye	ar)	Priority date (day/month/year,	)
PCT/JP 03/13797				28.10.2003			30.10.2002	
Inter	International Patent Classification (IPC) or both national classification and IPC							
G11	B27/	32						
Appli	icant							
		НІТА	ELECTRIC INDUST	RIAL CO.,LTD. et al.				
	Thic	intorr	national proliminant eval	mination report has hee	n prepared i	hy this Inter	national Preliminary Exami	inina
1.	Auth	ority	and is transmitted to the	applicant according to	Article 36.	-,	,	9
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2.	Inis	HEP	ORT consists of a total of	or 5 streets, including th	IIS COVEL SHE	5 <del>6</del> 1.		
	$\boxtimes$	This	report is also accompa	nied by ANNEXES, i.e.	sheets of th	e descriptio	n, claims and/or drawings v	which have
		beer	n amended and are the Rule 70.16 and Section	basis for this report and	<i>l</i> or sheets c	ontaining re	ctifications made before th	is Authority
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	The	se anı	nexes consist of a total of	of 13 sheets.				
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3.	Inis	repo	t contains indications re	elating to the following it	enis:		•	
	1	$\boxtimes$	Basis of the opinion					
	11		Priority					
	111		Non-establishment of	opinion with regard to n	ovelty, inver	ntive step a	nd industrial applicability	
	IV		Lack of unity of invent					
	V	$\boxtimes$	Reasoned statement t	under Rule 66.2(a)(ii) w ions supporting such st	ith regard to atement	novelty, in	ventive step or industrial ap	plicability;
	VI		Certain documents cit					
	VII			international application	1			
	VIII		Certain observations of	on the international app	ication			
Date of submission of the demand			Date of com	npletion of thi	s report			
24.05.2004			25.01.200	05				
Name and mailing address of the international preliminary examining authority:				Authorized	Officer		Lite hes Patente	
European Patent Office				_	_		1111	
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d				56 epmu d	Sucher, F	₹		
Fax: +49 89 2399 - 4465				•	Telephone	No. +49 89 2	399-2148	Sales Office over



# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 03/13797

I. B	asis	of	the	rep	ort
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages			
	1-3,	8-38	as originally filed		
	4, 4	a, 5, 6, 6a, 7, 7a	received on 22.11.2004 with letter of 22.11.2004		
	Clai	ms, Numbers			
	1-14	ı	received on 22.11.2004 with letter of 22.11.2004		
	Dra	wings, Sheets			
	1/11	-11/11	as originally filed		
<ol><li>With regard to the language, all the elements marked above were available or furnished to this Authori language in which the international application was filed, unless otherwise indicated under this item.</li></ol>					
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:		
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).		
		the language of publi	cation of the international application (under Rule 48.3(b)).		
		the language of a training the 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).		
3.	With	n regard to any <b>nucle</b> ornational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:		
		contained in the inter	national application in written form.		
		filed together with the	e international application in computer readable form.		
		furnished subsequen	tly to this Authority in written form.		
		furnished subsequen	tly to this Authority in computer readable form.		
		The statement that the in the international ap	ne subsequently furnished written sequence listing does not go beyond the disclosure oplication as filed has been furnished.		
		The statement that the listing has been furnis	ne information recorded in computer readable form is identical to the written sequence shed.		
4.	The	amendments have re	esulted in the cancellation of:		
		the description,	pages:		
		the claims,	Nos.:		
		the drawings,	sheets:		

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5.	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-14

Inventive step (IS)

No: Claims Yes: Claims

1-14

Industrial applicability (IA)

Yes: Claims

Claims

No:

1-14

No: Claims

2. Citations and explanations

see separate sheet

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
  - D1: PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08, 30 June 1999 & JP 11 086512 A (NEC CORP), 30 March 1999;
  - D2: PATENT ABSTRACTS OF JAPAN vol. 1998, no. 08, 30 June 1998 & JP 10 083658 A (SONY CORP), 31 March 1998.
- 2. Document D1 discloses (see the abstract and par. 0018-0023 in conjunction with fig. 3) a recording method for recording data into an information recording medium (rewriting type optical disk), wherein the number of rewrites into the same area is limited, comprising

performing a search for unallocated areas in an information recording area and retaining, in a memory, unallocated area identifying information for identifying at least one unallocated area found by the search (step S31, reading positional information and size information on a free space from non-record section information, see also fig. 2),

determining whether or not an unallocated area satisfying a record request is present among the at least one unallocated areas identified by the unallocated area identifying information (step S32, asking for the size of the data to be written, and step S33, judging whether writing to a non-record section is possible based on the free space), and

when an unallocated area satisfying a record request is present among the at least one unallocated areas identified by the unallocated area identifying information, allocating the unallocated area as an area for recording data and recording data into the allocated area (steps S35 and S36, recording of data to the non-record section and changing the corresponding non-record section information).

From this, the subject-matter of claim 1 differs by searching for a new user file recorded in at least one allocated area, generating a pointer indicating a position based on an end position of an area in which the new user file is recorded,

wherein the search for unallocated areas is performed from a position following the position indicated by the pointer in a fixed direction.

By starting the search for unallocated areas from an end position of an area in which a new user file is recorded, the time for searching unallocated areas can be reduced.

Document D2 discloses to write new file information in an empty sector of a file information recording area (70) successively and additively after old file information in order to decrease the number of rewrites into the same area of an optical disk. However, the search for an empty sector after old file information is always started from the beginning of the file information recording area (see par. 0043 and 0044 in conjunction with fig. 8, sector number i=0, track number j=0). Since the file information recording area (70) is small (2048 tracks of 64 sectors) compared to the user data area (80) which corresponds to the "information recording area" of claim 1, there is no motivation to use an additional pointer for starting the search as defined in the claim. Thus, even a combination of the teachings of documents D1 and D2 would not result in the subject-matter of claim 1 which therefore appears to involve an inventive step in the sense of Article 33(3) PCT.

The same statement also applies to claim 13 defining the corresponding recording apparatus.

3. Claims 2-12 and 14 are dependent on claims 1 and 13, respectively, and as such also meet the requirements of the PCT with respect to novelty and inventive step.